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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Mercedes Faulkner
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Applicant : Ahmadreza Rofougaran, et al.

Application No. : 09/699,040

Filed : October 27, 2000

Title : ADAPTIVE RADIO TRANSCEIVER
WITH OFFSET PLL WITH
SUBSAMPLING MIXERS

Grp./Div. : 2682

Examiner : To be assigned

Docket No. : 40885/CAG/B600

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SUPPLEMENTAL PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Post Office Box 7068
Pasadena, CA 91109-7068
August 23, 2001

Commissioner:

Before examination please amend the above-identified application,
as follows:

In the Claims:

Please cancel claims 23-29 without prejudice. Claims 1-22 and 30-36 remain unchanged and are included herein for reference purposes.

1. (Unchanged) A phase lock loop, comprising:
an oscillator having a tuning input, and an output with a tunable frequency responsive to the tuning input;
a subsampling mixer to mix the oscillator output with a second signal to produce a mixed signal; and
a phase detector outputting an error signal which is a function of a phase difference between the mixed signal and an input